

Reissue application	Japan 06-103133, April 15, 1994 [Citations are to the paragraph numbers in the text of both the Japanese publication and in the translation]
13. The method of claim 11, wherein the step of selecting includes the step of selecting $Y_A Y_B$ such that Y_B is 0 (zero).	The reference proposes a "threshold value" of 50 [Action] which corresponds to $Y_A = 5$ and $Y_B = 0$.
14. The method of claim 11, including an additional step, after the step of sorting, of storing the sorted dates and their associated information back into the database.	The key file 3 has the restored date keys and it is part of the database [0016] to correspond to this clause.
15. The method of claim 14, including the additional step, after the step of sorting, of manipulating information in the database having the reformatted date therein.	The act of manipulating information is the purpose of any database - it is inherent in the reference.

Reissue Application, claim 16	Japan 06-103133, April 15, 1994 [Citations are to the paragraph numbers in the text of both the Japanese publication and in the translation]
16. A method of processing symbolic representations of dates stored in a database, comprising the steps of:	The reference is directed at managing date keys of a data file, [Title] which is effected by processing date data in a database. Each item of date data is a symbolic representation
providing a database with symbolic representations of dates stored therein according to a format wherein M_1M_2 is the numerical month designator D_1D_2 is the numerical day designator, and Y_1Y_2 is the numerical year designator, all of the symbolic representations of dates falling within a 10-decade period of time;	The unprocessed database uses two digits to represent each of year, month and day data, see the data in date file 1, an example is the first entry, "991203" which represents 3 rd Dec. 1999 [0003]. The text [0010 and 0011] make it clear that the date range is limited "The reason for this is that the data file 1 does not contain the year data '2099' or '1900'.", there is a "minimum value of the year data in the 20 th century" and a "maximum value of the year data in the 21 st century" with the "threshold value" in between these two. This is only possible if the span of the data base is less than 10 decades
selecting a window with a Y_AY_B value for a pivot date of the window, Y_AY_B being no later than the earliest year designator in the database;	The "threshold value" or α corresponds to Y_AY_B and it is "no later" than the earliest Y_1Y_2 since it is selected as between n_0n_1 , the minimum value of the 20 th Century and the lower value, n_2n_3 , which is the maximum value of the 21 st Century [0011]. Although not mentioned in this reference (nor in the specification of the application) those skilled in the art have applied the term "pivot date" to what the claim terms Y_AY_B and the reference refers to as the "threshold value" or α .
determining a century designator C_1C_2 for each symbolic representation of a date in the database, C_1C_2 having a first value if Y_1Y_2 is less than Y_AY_B and having a second value if Y_1Y_2 is equal to or greater than Y_AY_B and;	A comparison is made between the date data, nn , and the threshold value, α ; if $nn > \alpha$, the century designator "19" is used, otherwise, that is if $nn \leq \alpha$, the other century designator, "20" is used [0015]. Note also that the processing is applied to "the successive records of data file 1 and terminates when the last record is processed", i.e., the processing is applied to "each" record. [0015]
reformatting the symbolic representation of each symbolic representation of a date in the database, without the addition of	The date data has the selected century designator appended. "In this way, it restores the 4-digit year data, and, combining this with the remaining

database, without the addition of any new data field to the database with the reformatted symbolic representation of each date in the database having the values C_1C_2 , Y_1Y_2 , M_1M_2 and D_1D_2 , in order to facilitate collectively further processing the reformatted symbolic representations of each of the symbolic representations of each of the dates.

month and day data, transfers it to the key file compilation unit 5". [0015] That is, we start with $Y_1Y_2M_1M_2D_1D_2$ and append C_1C_2 , to end up with $C_1C_2Y_1Y_2M_1M_2D_1D_2$. The processing is applied to "the successive records of data file 1 and terminates when the last record is processed", i.e., the processing is applied to "each" record. [0015] Since this may be accomplished "without having to modify" the "existing files" [0018] it is clear that there has not been the addition of a "new data field". Having created the key file 3 allows correct sorting. This is facilitating collectively further processing.

Reissue Application	Japan 06-103133, April 15, 1994 [Citations are to the paragraph numbers in the text of both the Japanese publication and in the translation]
17. The method of claim 16, wherein the window includes at least a portion of the decade beginning in the year 2000.	The reference is directed to Y2K, i.e., the transition from the 20 th to the 21 st century and so, by definition, uses a window which encompasses the year 2000 [Object].
18. The method of claim 17, wherein the step of determining includes the step of determining the first value as 20 and the second value as 19.	Since the reference is directed at Y2K [Object] the century indicators are "19" and "20" [Constitution].
19. The method of claim 16, including an additional step; after the step of reformatting of sorting the symbolic representations of dates.	After 4 digit year value is determined, "data sorting" is performed [Constitution].
20. The method of claim 16, wherein the step of reformatting includes the step of reformatting each symbolic representation of a date into the format C ₁ C ₂ Y ₁ Y ₂ M ₁ M ₂ D ₁ D ₂ separately from the symbolic representations in the database.	Once the proper century indicator is determined, it is "appended" to the year data so as to combine the 4 digit year with month and day data [0015], this is the claimed format. The format is created in the key file 3 which is "separate" from the database 1. ----- The recitation of "reformatting ... separately" cannot serve to distinguish the reference since there is no support in the specification for this feature.
21. The method of claim 20 including an additional step, after the step of reformatting, of sorting the symbolic representations of dates using a numerical-order sort.	Once the eight digit date data (four digit year, two digit month and day) is created, the key file 3 is compiled by "sorting" [0016]. A numerical sort can be used since, the eight digit date data "now accurately reflect the time sequence" [0012].
23. The method of claim 16, wherein the step of selecting includes the step of selecting Y _A Y _B such that Y _B is 0 (zero).	The reference proposes a "threshold value" of 50 [Action] which corresponds to Y _A = 5 and Y _B = 0.
24. The method of claim 16, including an additional step, after the step of reformatting, of storing the symbolic representation of dates and their associated information back into the database.	The key file 3 has the restored date keys and it becomes part of the database [0016] to correspond to this clause.
25. The method of claim 24, including the additional step,	The act of manipulating information is the purpose of any database - it is inherent in the reference.

after the step of reformatting, of manipulating information in the database having the reformatted date information therein.	inherent in the reference.
--	----------------------------

Reissue application, claim 26	Japan 06-103133, April 15, 1994 [Citations are to the paragraph numbers in the text of both the Japanese publication and in the translation]
A method of processing dates in a database, comprising the steps of:	The reference is directed at managing date keys of a data file, [Title] which is effected by processing date data in a database
providing a database with dates stored therein according to a format wherein M_1M_2 is the numerical month designator, D_1D_2 is the numerical day designator, and Y_1Y_2 is the numerical year designator, all of the symbolic representations of dates falling within a 10-decade period of time;	The unprocessed database uses two digits to represent each of year, month and day data, see the data in date file 1, an example is the first entry, "991203" which represents 3 rd Dec. 1999 [0003]. The text [0010 and 0011] make it clear that the date range is limited "The reason for this is that the data file 1 does not contain the year data '2099' or '1900'.", there is a "minimum value of the year data in the 20 th century" and a "maximum value of the year data in the 21 st century" with the "threshold value" in between these two. This is only possible if the span of the data base is less than 10 decades
selecting a window with a Y_AY_B value for a pivot date of the window, Y_AY_B being no later than the earliest Y_1Y_2 year designator in the database;	The "threshold value" or α corresponds to Y_AY_B and it is "no later" than the earliest Y_1Y_2 since it is selected as between n_0n_1 , the minimum value of the 20 th Century date range and the lower value, n_2n_3 , which is the maximum value of the 21 st Century date range [0011]. Although not mentioned in this reference (nor in the specification of the application) those skilled in the art have applied the term "pivot date" to what the claim terms Y_AY_B and the reference refers to as the "threshold value" or α .
determining a century designator C_1C_2 for each date in the database, C_1C_2 having a first value if Y_1Y_2 is less than Y_AY_B and having a second value if Y_1Y_2 is equal to or greater than Y_AY_B	A comparison is made between the year data, nn , and the threshold value, α ; if $nn > \alpha$, the century designator "19" is used, otherwise, that is if $nn \leq \alpha$, the other century designator, "20" is used [0015]. Note also that the processing is applied to "the successive records of data file 1 and terminates when the last record is processed", i.e., the processing is applied to "each" record. [0015]
reformatting the symbolic representation of each symbolic representation of a date in the database, without the addition of any new data field to the database with	The date data has the selected century designator appended. "In this way, it restores the 4-digit year data, and, combining this with the remaining month and day data, transfers it to

<p>the reformatted symbolic representation of each date in the database having the values C_1C_2, Y_1Y_2, M_1M_2 and D_1D_2, in order to facilitate collectively further processing, the reformatted symbolic representations of each of the symbolic representations of each of the dates; and</p>	<p>the key file compilation unit 5". [0015] That is, we start with $Y_1Y_2M_1M_2D_1D_2$ and append C_1C_2, to end up with $C_1C_2Y_1Y_2M_1M_2D_1D_2$. The processing is applied to "the successive records of data file 1 and terminates when the last record is processed", i.e., the processing is applied to "each" record. [0015] Since this may be accomplished "without having to modify" the "existing files" [0018] it is clear that there has not been the addition of a "new data field". Further augmenting the year field from YY to CCYY does not amount to addition of a new data field.</p>
<p>sorting the dates in the form $C_1C_2Y_1Y_2M_1M_2D_1D_2$.</p>	<p>The key file compilation unit 5 arranges the data in ascending order "by performing sorting processing ...". [0016]</p>

Reissue Application	Japan 06-103133, April 15, 1994 [Citations are to the paragraph numbers in the text of both the Japanese publication and in the translation]
28. The method of claim 26, wherein the step of selecting includes the step of: selecting $Y_A Y_B$ such that Y_B is 0 (zero).	The reference proposes a "threshold value" of 50 [Action] which corresponds to $Y_A = 5$ and $Y_B = 0$.
29. The method of claim 26, including an additional step after the step of sorting, of; storing the sorted dates and their associated information back into the database.	The key file 3 has the restored date keys and it is part of the database [0016] to correspond to this clause.
30. The method of claim 29, including the additional step, after the step of sorting, of; manipulating information in the database having the reformatted dates therein.	The act of manipulating information is the purpose of any database - it is inherent in the reference.

Reissue application, claim 31	Japan 06-103133, April 15, 1994 [Citations are to the paragraph numbers in the text of both the Japanese publication and in the translation]
A method of processing symbolic representations of dates stored in a database, comprising the steps at:	The reference is directed at managing date keys of a data file, [Title] which is effected by processing date data in a database. Each data item is a symbolic representation.
providing a database with symbolic representations of dates stored therein according to a format wherein Y_1Y_2 is the numerical year designator:	The unprocessed database uses two digits to represent year data, see the data in date file 1, an example is the first entry, "991203" which represents 3 rd Dec. 1999 [0003]
selecting a window with a Y_AY_B value for the first decade of the window, Y_AY_B being no later than the earliest Y_1Y_2 year designator in the database;	The "threshold value" or α corresponds to Y_AY_B and it is "no later" than the earliest Y_1Y_2 since it is selected as between n_0n_1 , the minimum value of the 20 th Century date range and the lower value, n_2n_3 , which is the maximum value of the 21 st Century date range [0011].
determining a century designator C_1C_2 for each symbolic representation of a date in the database, C_1C_2 having a first value if Y_1Y_2 is less than Y_AY_B and having a second value if Y_1Y_2 is equal to or greater than Y_AY_B ;	A comparison is made between the year data, nn , and the threshold value, α ; if $nn > \alpha$, the century designator "19" is used, otherwise, that is if $nn \leq \alpha$, the other century designator, "20" is used [0015]. Note also that the processing is applied to "the successive records of data file 1 and terminates when the last record is processed", i.e., the processing is applied to "each" record. [0015]
reformatting the symbolic representation of each symbolic representation of a date in the database, without the addition of any new data field to the database, with the reformatted symbolic representation of each date in the database having the values C_1C_2 , Y_1Y_2 , in order to facilitate collectively further processing the reformatted symbolic representations of each of the symbolic representations of each of the dates.	The date data has the selected century designator appended. "In this way, it restores the 4-digit year data, and, combining this with the remaining month and day data, transfers it to the key file compilation unit 5". [0015] That is, we start with $Y_1Y_2M_1M_2D_1D_2$ and append C_1C_2 , to end up with $C_1C_2Y_1Y_2M_1M_2D_1D_2$. Clearly this means each item has the values C_1C_2 and Y_1Y_2 . The processing is applied to "the successive records of data file 1 and terminates when the last record is processed", i.e., the processing is applied to "each" record. [0015] Since this may be accomplished "without having to modify" the "existing files" [0018] it is clear that there has not been the addition of a "new data field". Further the augmenting of YY with CC does not require a new data field.

Reissue Application, claim 32	Japan 06-103133, April 15, 1994 [Citations are to the paragraph numbers in the text of both the Japanese publication and in the translation]
A method of processing dates in a database, comprising the steps of:	The reference is directed at managing date keys of a data file, [Title] which is effected by processing date data in a database
providing a database with symbolic representations of dates stored therein according to a format wherein Y_1Y_2 is the numerical year designator	The unprocessed database uses two digits to represent each of year, month and day data, see the data in date file 1, an example is the first entry, "991203" which represents 3 rd Dec. 1999 [0003].
selecting a window with a Y_1Y_2 , value for the pivot year of the window, Y_AY_B being no later than the earliest Y_1Y_2 year designator in the database;	The "threshold value" or α corresponds to Y_AY_B and it is "no later" than the earliest Y_1Y_2 since it is selected as between n_0n_1 , the minimum value of the 20 th Century date range and the lower value, n_2n_3 , which is the maximum value of the 21 st Century date range [0011]. Although not mentioned in this reference (nor in the specification of the application) those skilled in the art have applied the term "pivot date" to what the claim terms Y_AY_B and the reference refers to as the "threshold value" or α .
determining a century designator C_1C_2 for each symbolic representation of a date in the database, C_1C_2 having a first value if Y_1Y_2 is less than Y_AY_B and having a second value if Y_1Y_2 is equal to or greater than Y_AY_B ;	A comparison is made between the year data, nn , and the threshold value, α ; if $nn > \alpha$, the century designator "19" is used, otherwise, that is if $nn \leq \alpha$, the other century designator, "20" is used [0015]. Note also that the processing is applied to "the successive records of data file 1 and terminates when the last record is processed", i.e., the processing is applied to "each" record. [0015]
reformatting the symbolic representation of each of the dates in the database, without the addition of any new data field to the database, with the reformatted symbolic representation of each date in the database having the values C_1C_2 , Y_1Y_2 , in order to facilitate collectively further processing the reformatted symbolic representations of each of the dates; and	The date data has the selected century designator appended. "In this way, it restores the 4-digit year data, and, combining this with the remaining month and day data, transfers it to the key file compilation unit 5". [0015] That is, we start with $Y_1Y_2M_1M_2D_1D_2$ and append C_1C_2 , to end up with $C_1C_2Y_1Y_2M_1M_2D_1D_2$. The processing is applied to "the successive records of data file 1 and terminates when the last record is processed", i.e., the processing is applied to "each" record. [0015] Since this may be accomplished "without having to

	<p>modify" the "existing files" [0018] it is clear that there has not been the addition of a "new data field". Further the augmenting of YY with CC does not require the addition of a new field.</p>
sorting the dates in the form C ₁ C ₂ Y ₁ Y ₂ .	<p>The key file compilation unit 5 arranges the data in ascending order "by performing sorting processing ...". [0016] There is no description in the Dickens specification of sorting on C₁C₂Y₁Y₂ as claimed here. Thus to this extent this claim lacks written description support. Dickens has argued that disclosure of sorting on C₁C₂Y₁Y₂M₁M₂D₁D₂ supports claiming sorting on C₁C₂Y₁Y₂, see p. 58 of the response. If that is the case then the reference's teaching of sorting on C₁C₂Y₁Y₂M₁M₂D₁D₂ is an anticipation of the claim.</p>

Reissue Application, claim 33	Japan 06-103133, April 15, 1994 [Citations are to the paragraph numbers in the text of both the Japanese publication and in the translation]
A method of processing symbolic representations of dates stored in a database, comprising the steps of:	The reference is directed at managing date keys of a data file, [Title] which is effected by processing date representations in a database, each item of data is a symbolic representation
providing a database with symbolic representations of dates stored therein according to a format wherein Y_1Y_2 is the year designator,	The unprocessed database uses two digits to represent year data, see the data in date file 1, an example is the first entry, "991203" which represents 3 rd Dec. 1999 [0003].
selecting a window with a Y_AY_B value for the first decade of the window, Y_AY_B being no later than the earliest Y_1Y_2 year designator in the database;	The "threshold value" or α corresponds to Y_AY_B and it is "no later" than the earliest Y_1Y_2 since it is selected as between n_0n_1 , the minimum value of the 20 th Century date range and the lower value, n_2n_3 , which is the maximum value of the 21 st Century date range [0011].
determining a century designator C_1C_2 for each symbolic representation of a date in the database, C_1C_2 having a first value if Y_1Y_2 is less than Y_AY_B and having a second value if Y_1Y_2 is equal to or greater than Y_AY_B ; and	A comparison is made between the date data, nn , and the threshold value, α ; if $nn > \alpha$, the century designator "19" is used, otherwise, that is if $nn \leq \alpha$, the other century designator, "20" is used [0015]. Note also that the processing is applied to "the successive records of data file 1 and terminates when the last record is processed", i.e., the processing is applied to "each" record. [0015]
reformatting the symbolic representation of each symbolic representation of a date in the database, without changing any of the symbolic representations of a date in the database during the reformatting step, with the reformatted symbolic representation of each date in the database having the values C_1C_2 , Y_1Y_2 , in order to facilitate collectively further processing the reformatted symbolic representations of each of the dates.	<p>The date data, augmented with the century designator (19 or 20), is then written to key file 3; as seen there the date data has been reformatted to add the century designator. The reformatted data has the form of $C_1C_2Y_1Y_2M_1M_2D_1D_2$. Since the reference does not mention rewriting the database 1, this operation can be said to perform reformatting without changing the representations in the database, meaning database 1.</p> <p>-----</p> <p>The written description support for the clause "without changing any of the symbolic representations of a date in the database during the reformatting step" is lacking since, neither the clause nor anything like it is found either in the Dickens specification or file history</p>

Reissue Application, claim 34	Japan 06-103133, April 15, 1994 [Citations are to the paragraph numbers in the text of both the Japanese publication and in the translation]
A method for representing and utilizing dates stored in at least one date field of a database utilizing symbolic representations of the dates stored in the at least one date field of the database, which are in a format that creates ambiguity between dates in each of a pair of adjacent centuries, comprising the steps of:	The reference is directed at managing date keys of a data file, [Title] which is effected by processing date representations in a database. Each item of data is a symbolic representation. The problem solved by the invention is the inversion in time sequence caused by the use of two digit year indications at the year 2000 [0005]. The unprocessed database uses two digits to represent year data, see the data in date file 1, an example is the first entry, "991203" which represents 3 rd Dec. 1999 [0003].
converting each of the symbolic representations of dates stored in the at least one date field of the database to a symbolic representation of each of the respective dates that does not create the ambiguity,	The symbolic representations are amended by adding either "19" or "20" to represent the 20 th and 21 st century, respectively [0015]. Note also that the processing is applied to "the successive records of data file 1 and terminates when the last record is processed", i.e., the processing is applied to "each" record. [0015]
by windowing the symbolic representations of each of the respective dates as stored in the at least one date field of the database against a pivot year represented by one of the symbolic representations of the dates as stored in the at least one date field of the database, without the addition of any new data field to the database for purposes of such windowing and converting; and,	Assuming the term "windowing" and "pivot year" are given the common definition, then the "threshold value" of the reference corresponds to the beginning of the "window" as well as the "pivot year". The assumption is necessary since the terms "windowing" and "pivot year" are not found in the Dickens specification. The processing proceeds by selecting a "threshold value" or α which is "no later" than the earliest year in the database. The threshold value is selected as between n_0n_1 , the smallest 20 th Century year and the lower value, n_2n_3 , which is the maximum value of the 21 st Century date range [0011]. Then a comparison is made between the date data, nn , and the threshold value, α ; if $nn > \alpha$, the "19" designator is selected, otherwise "20" is selected. Since the nn may be equal to the "threshold value" (if nn is not $> \alpha$, then it is \leq) which means that the "threshold value" may be a date stored in the database. Since this processing may be accomplished "without having to modify" the

	<p>"existing files" [0018] it is clear that there has not been the addition of a "new data field".</p> <p>The reference does not describe that the "threshold" or "pivot year" is a data point in the database, i.e., "a pivot year represented by one of the symbolic representations of the dates as stored in the at least one date field of the database". The Dickens specification also fails to describe this feature. If the feature is not ignored then the claim has no description support. If the feature is ignored then it cannot be used to distinguish the reference.</p>
<p>running a program collectively on each of the converted symbolic representations of each of the respective dates to sort or otherwise manipulate the dates represented by the converted symbolic representations, separately from the date data symbolic representations contained in the at least one date field of the database.</p>	<p>Sorting is effected as described in [0006]. Typically sorting is effected by "running a program" and is thus inherent in the reference. The meaning to be attributed to the phrase "running a program to sort ... separately from the date data symbolic representations contained in the at least one date field of the database" is difficult to determine since there is no such phrase or anything like it in the Dickens specification or file history. Clearly however, this does not represent a distinction between this clause of the claim and the reference.</p>

Reissue Application	Japan 06-103133, April 15, 1994 [Citations are to the paragraph numbers in the text of both the Japanese publication and in the translation]
35 A method of claim 34 further comprising the step of: opening the database prior to the step of converting.	There is no written description of the claimed subject matter. Alternatively Dickens argues that opening a database is inherent in his disclosure. For the same reason it is inherent in the reference.
36. The method of claim 34 further comprising the step of: collectively sorting the converted symbolic representations prior to the step of running the program on the converted symbolic representations.	The reference teaches both sorting a database as well as "otherwise manipulating" the data. Assuming the program is effected to sort or manipulate, there is nothing else in this claim. There is no support in the specification for any other meaning.
37. The method of claim 35 further comprising the step of: collectively sorting the converted symbolic representations prior to the step of running the program on the converted symbolic representations.	The reference teaches both sorting a database as well as "otherwise manipulating" the data. Assuming the program is effected to sort or manipulate, there is nothing else in this claim. There is no support in the specification for any other meaning.
38. The method of claim 34 further comprising the step of: collectively manipulating the converted symbolic representations prior to the step of running the program on the converted symbolic representations.	The reference teaches both sorting a database as well as "otherwise manipulating" the data. Assuming the program is effected to sort or manipulate, there is nothing else in this claim. There is no support in the specification for any other meaning.
39. The method of claim 35 further comprising the step of: collectively manipulating the converted symbolic representations prior to the step of running the program on the converted symbolic representations.	The reference teaches both sorting a database as well as "otherwise manipulating" the data. Assuming the program is effected to sort or manipulate, there is nothing else in this claim. There is no support in the specification for any other meaning.
40. The method of claim 34 further comprising the step of: collectively sorting the converted symbolic representations according to a different data field contained in the database from the at least one date field, prior to the step of running the program on the converted symbolic representations.	The reference teaches both sorting a database as well as "otherwise manipulating" the data. Assuming the program is effected to sort or manipulate, there is nothing else in this claim. There is no support in the specification for any other meaning nor is there any support for sorting "according to a different data field".
41. The method of claim 35 further comprising the step of: collectively sorting the converted	The reference teaches both sorting a database as well as "otherwise manipulating" the data. Assuming the

<p>symbolic representations according to a different data field contained in the database from the at least one date field, prior to the step of running the program on the converted symbolic representations.</p>	<p>program is effected to sort or manipulate, there is nothing else in this claim. There is no support in the specification for any other meaning nor is there any support for sorting "according to a different data field".</p>
<p>42. The method of claim 34 further comprising the step of: collectively manipulating the converted symbolic representations according to a different data field contained in the database from the at least one date field, prior to the step of running the program on the converted symbolic representations.</p>	<p>The reference teaches both sorting a database as well as "otherwise manipulating" the data. Assuming the program is effected to sort or manipulate, there is nothing else in this claim. There is no support in the specification for any other meaning nor is there any support for sorting "according to a different data field".</p>
<p>43. The method of claim 35 further comprising the step of: collectively manipulating the converted symbolic representations according to a different data entry field contained in the database from the at least one date field, prior to the step of running the program on the converted symbolic representations.</p>	<p>The reference teaches both sorting a database as well as "otherwise manipulating" the data. Assuming the program is effected to sort or manipulate, there is nothing else in this claim. There is no support in the specification for any other meaning nor is there any support for sorting "according to a different data entry field".</p>
<p>44. The method of claim 34 wherein the program performs an operation which manipulates the data in a data field associated with the at least one date field of the database according to the converted symbolic representation of the date.</p>	<p>This claim merely calls for data manipulation of a database which is inherent in the reference.</p>
<p>45. The method of claim 35 wherein the program performs an operation which manipulates the data in a data field associated with the at least one date field of the database according to the converted symbolic representation of the date.</p>	<p>This claim merely calls for data manipulation of a database which is inherent in the reference</p>
<p>46. The method of claim 34 wherein the step of converting includes converting at least a. substantial portion of each of the plurality of symbolic representations of dates in the at least one date field and repeating this step until each of the date data entries in the at least one date field is converted into the format that does not have the ambiguity.</p>	<p>The reference calls for repetitively operating the conversion apparatus until all dates are converted.</p>
<p>47. The method of claim 35 wherein the step of converting includes converting at least a substantial portion of each of the plurality of symbolic representations of dates in the at</p>	<p>The reference calls for repetitively operating the conversion apparatus until all dates are converted</p>

<p>least one date field and repeating this step until each of the date data entries in the at least one date field is converted into the format that does not have the ambiguity.</p>	
<p>48. The method of claim 46 further comprising the steps of:</p> <p>collectively sorting the converted symbolic representations prior to the step of running the program on the converted symbolic representations.</p>	<p>The reference teaches both sorting a database as well as "otherwise manipulating" the data. Assuming the program is effected to sort or manipulate, there is nothing else in this claim. There is no support in the specification for any other meaning.</p>
<p>49. The method of claim 47 further comprising the steps of:</p> <p>collectively sorting the converted symbolic representations prior to the step of running the program on the converted symbolic representations.</p>	<p>The reference teaches both sorting a database as well as "otherwise manipulating" the data. Assuming the program is effected to sort or manipulate, there is nothing else in this claim. There is no support in the specification for any other meaning.</p>
<p>50. The method of claim 46 further comprising the step of:</p> <p>collectively manipulating the converted symbolic representations.</p>	<p>The reference teaches both sorting a database as well as "otherwise manipulating" the data. Assuming the program is effected to sort or manipulate, there is nothing else in this claim. There is no support in the specification for any other meaning.</p>
<p>51. The method of claim 49 further comprising the step of;</p> <p>collectively manipulating the converted symbolic representations.</p>	<p>The reference teaches both sorting a database as well as "otherwise manipulating" the data. Assuming the program is effected to sort or manipulate, there is nothing else in this claim. There is no support in the specification for any other meaning.</p>
<p>52. The method of claim 46 further comprising the step of:</p> <p>collectively sorting the converted symbolic representations according to a different data field in the database than the at least one date field, prior to the step of running the program.</p>	<p>The reference teaches sorting a database. Assuming the program is effected to sort or manipulate, there is nothing else in this claim. There is no support in the specification for any other meaning nor is there any support for sorting on "a different data field".</p>
<p>53. The method of claim 47 further comprising the step of:</p> <p>collectively sorting the converted symbolic representations according to a different data field in the database than the at least one date field, prior to the step of running the program.</p>	<p>The reference teaches both sorting a database. Assuming the program is effected to sort or manipulate, there is nothing else in this claim. There is no support in the specification for any other meaning nor is there any support for sorting on "a different data field".</p>
<p>54. The method of claim 52 further</p>	<p>Since the reference deals with a</p>

comprising the step of: collectively manipulating the converted symbolic.	database it inherently teaches manipulating the data as well as collectively manipulating the data.
55. The method of claim 53 further comprising the step of: collectively manipulating the converted symbolic representations	Since the reference deals with a database it inherently teaches manipulating the data as well as collectively manipulating the data
56. The method of claim 52 wherein the program performs an operation which manipulates the data in a data field associated with the at least one date field of the database according to the converted symbolic representation of the date.	Since the reference deals with a database it inherently teaches manipulating the data as well as collectively manipulating the data
57. The method of claim 53 wherein the program performs an operation which manipulates the data in a data field associated with the at least one date field of the database according to the converted symbolic representation of the date.	Since the reference deals with a database it inherently teaches manipulating the data as well as collectively manipulating the data
58. The method of claim 54 wherein the program performs an operation which manipulates the data in a data field associated with the at least one date field of the database according to the converted symbolic representation of the date.	Since the reference deals with a database it inherently teaches manipulating the data as well as collectively manipulating the data
59. The method of claim 55 wherein the program performs an operation which manipulates the data in a data field associated with the at least one date field of the database according to the converted symbolic representation of the date.	Since the reference deals with a database it inherently teaches manipulating the data as well as collectively manipulating the data

Reissue application, claim 60	Japan 06-103133, April 15, 1994 [Citations are to the paragraph numbers in the text of both the Japanese publication and in the translation]
A method for representing and utilizing dates stored in at least one date field of a database utilizing symbolic representations of the dates stored in the at least one date field of the database, which are in a format that creates ambiguity between dates in each of a pair of adjacent centuries, comprising the steps of	The reference is directed at managing date keys of a data file, [Title] which is effected by processing date representations in a database. Each item of data is a symbolic representation. The problem solved by the invention is the inversion in time sequence caused by the use of two digit year indications at the year 2000. [0005]
converting each of the symbolic representations of dates stored in the at least one date field of the database to a symbolic representation of each of the respective dates that does not create the ambiguity, by windowing the symbolic representations of each of the respective dates as stored in the at least one date field of the database against a pivot year represented by one of the symbolic representations of the dates as stored in the at least one date field of the database, without modifying any of the symbolic representations of dates in the at least one date field of the database for purposes of such windowing and converting;	Assuming the term "windowing" and "pivot year" are given the common definition, then the "threshold value" of the reference corresponds to the beginning of the "window" as well as the "pivot year". The assumption is necessary since the terms "windowing" and "pivot year" are not found in the Dickens specification. The unprocessed database uses two digits to represent year data, see the data in date file 1, an example is the first entry, "991203" which represents 3 rd Dec. 1999 [0003]. The symbolic representations are amended by adding either "19" or "20" to represent the 20 th and 21 st century, respectively [0015]. Note also that the processing is applied to "the successive records of data file 1 and terminates when the last record is processed", i.e., the processing is applied to "each" record [0015]. Assuming that the claimed "pivot year" has the common meaning in the art, then the "threshold year" of the reference corresponds to the pivot year. The processing selects a "threshold value" or α which is "no later" than the earliest year in the database. The threshold value is selected as between n_0n_1 , the smallest 20 th Century year and the lower value, n_2n_3 , which is the maximum value of the 21 st Century date range [0011]. Then a comparison is made between the date data, nn, and the threshold value, α ; if $nn > \alpha$, the "19" designator is selected, otherwise "20" is selected. Since the nn may be equal to the "threshold value" (if nn is not $> \alpha$, then it is \leq) which means

	<p>that the "threshold value" may be a date stored in the database. The meaning to be attributed to the phrase "converting ... without modifying ..." is not apparent since there is no such phrase (or anything like it) to be found in either the Dickens specification or the file history. Clearly, however, this phrase does not distinguish from the reference.</p>
<p>running a program on each of the converted symbolic representations of each of the respective dates to sort or otherwise manipulate data in the database according to the dates represented by the converted symbolic representations, separately from the date data symbolic representations of dates contained in the at least one date field of the database.</p>	<p>Sorting is effected as described in [0006]. Typically sorting is effected by "running a program" and is thus inherent in the reference. Since the phrase "running a program to sort ... separately from the date data symbolic representations contained in the at least one date field of the database" is not found either in the Dickens specification or file history the meaning to be attributed to this clause is in doubt. It is clear, however that there is no distinction between this clause of the claim and the reference.</p>

Reissue application, claim 61	Japan 06-103133, April 15, 1994 [Citations are to the paragraph numbers in the text of both the Japanese publication and in the translation]
A method for representing and utilizing dates stored in at least one date field of a database utilizing symbolic representations of the dates stored in the at least one date field of the database, which are in a format that creates ambiguity between dates in each of a pair of adjacent centuries, comprising the steps of:	The reference is directed at managing date keys of a data file, [Title] which is effected by processing date representations in a database. Each item of data is a symbolic representation. The problem solved by the invention is the inversion in time sequence caused by the use of two digit year indications at the year 2000. [0005]
converting each of the symbolic representations of dates stored in the at least one date field of the database to a symbolic representation of each of the respective dates that does not create the ambiguity, by windowing the symbolic representations at each of the respective dates as stored in the at least one date field of the database against a pivot year represented by one of the symbolic representations of the dates as stored in the at least one date field of the database, without modifying any of the symbolic representations of dates in the at least date field of the database for purposes of such windowing and converting;	Assuming the term "windowing" and "pivot year" are given the common definition, then the "threshold value" of the reference corresponds to the beginning of the "window" as well as the "pivot year". The assumption is necessary since the terms "windowing" and "pivot year" are not found in the Dickens specification. The unprocessed database uses two digits to represent year data, see the data in date file 1, an example is the first entry, "991203" which represents 3 rd Dec. 1999 [0003]. The symbolic representations are amended by adding either "19" or "20" to represent the 20 th and 21 st century, respectively [0015]. Note that the processing is applied to "the successive records of data file 1 and terminates when the last record is processed", i.e., the processing is applied to "each" record [0015]. Assuming that the claimed "pivot year" has the common meaning in the art, then the "threshold year" of the reference corresponds to the pivot year. The processing selects a "threshold value" or α which is "no later" than the earliest year in the database. The threshold value is selected as between n_0n_1 , the smallest 20 th Century year and the lower value, n_2n_3 , which is the maximum value of the 21 st Century date range [0011]. A comparison is made between the date data, nn , and the threshold value, α ; if $nn > \alpha$, the "19" designator is selected, otherwise "20" is selected. Since the nn may be equal to the "threshold value" (if nn is not $> \alpha$, then it is \leq) which means that the

	<p>"threshold value" may be a date stored in the database. The meaning to be attributed to the phrase "converting ... without modifying ..." is not apparent since there is no such phrase (or anything like it) to be found in either the Dickens specification or the file history. Clearly, however, this phrase does not distinguish from the reference.</p>
running a program collectively on each of the converted symbolic representations of each of the respective dates to sort or otherwise manipulate the dates represented by the converted symbolic representations separately from the symbolic representations of dates contained in the at least one date field of the database.	<p>Sorting is effected as described in [0006]. Typically sorting is effected by "running a program" and is thus inherent in the reference. Since the phrase "running a program ... to sort ... separately from the date data symbolic representations contained in the at least one date field of the database" is not found either in the Dickens specification or file history the meaning to be attributed to this clause is in doubt.</p> <p>It is clear, however that there is no distinction between this clause of the claim and the reference.</p>

Reissue application, claim 62	Japan 06-103133, April 15, 1994 [Citations are to the paragraph numbers in the text of both the Japanese publication and in the translation]
A method for representing and utilizing dates stored in at least one date field of a database utilizing symbolic representations of the dates stored in the at least one date field of the database, which are in a format that creates ambiguity between dates in each of a pair of adjacent centuries, comprising the steps of:	The reference is directed at managing date keys of a data file, [Title] which is effected by processing date representations in a database. Each item of data is a symbolic representation. The problem solved by the invention is the inversion in time sequence caused by the use of two digit year indications at the year 2000. [0005]
converting each of the symbolic representations of dates stored in the at least one date field of the database to a symbolic representation of each of the respective dates that does not create the ambiguity, by windowing the symbolic representations of each of the respective dates as stored in the at least one date field of the database against a pivot year represented by one of the symbolic representations of the dates as stored in the at least one date field of the database, without the addition of any new data field to the database for purposes of such windowing and converting;	Assuming the term "windowing" and "pivot year" are given the common definition, then the "threshold value" of the reference corresponds to the beginning of the "window" as well as the "pivot year". The assumption is necessary since the terms "windowing" and "pivot year" are not found in the Dickens specification. The unprocessed database uses two digits to represent year data, see the data in date file 1, an example is the first entry, "991203" which represents 3 rd Dec. 1999 [0003]. The symbolic representations are amended by adding either "19" or "20" to represent the 20 th and 21 st century, respectively [0015]. Note that the processing is applied to "the successive records of data file 1 and terminates when the last record is processed", i.e., the processing is applied to "each" record [0015]. Assuming that the claimed "pivot year" has the common meaning in the art, then the "threshold year" of the reference corresponds to the pivot year. The processing selects a "threshold value" or α which is "no later" than the earliest year in the database. The threshold value is selected as between n_0n_1 , the smallest 20 th Century year and the lower value, n_2n_3 , which is the maximum value of the 21 st Century date range [0011]. Then a comparison is made between the date data, nn, and the threshold value, α ; if $nn > \alpha$, the "19" designator is selected, otherwise "20" is selected. Since the nn may be equal to the "threshold value" (if nn is not $> \alpha$, then it is \leq) which means

	<p>that the "threshold value" may be a date stored in the database.</p> <p>The reference does not describe that the "threshold" or "pivot year" is actually a data point in the database, i.e., "a pivot year represented by one of the symbolic representations of the dates as stored in the at least one date field of the database". The Dickens specification also fails to describe this feature. If the feature is not ignored then the claim has no description support. If the feature is ignored then it cannot be used to distinguish the reference.</p>
<p>storing the converted symbolic representations separate from the at least one date field of the database; and</p>	<p>Fig. 2 and the table of key file 3 make it clear that the converted data is stored. The meaning to be attributed to "storing ... separate from the at least one date field of the database" is not clear since there is no such phrase, or anything like it, to be found in the Dickens specification or file history. In any event, this cannot be a basis to distinguish the reference.</p>
<p>running a program on the stored converted symbolic representations to sort or otherwise manipulate data in the database according to the dates represented by the converted symbolic representations, separately from the symbolic representations of dates contained in the at least one date field of the database.</p>	<p>Sorting is effected as described in [0006]. Since the phrase "running a program ... to sort ... separately from the date data symbolic representations contained in the at least one date field of the database" is not found either in the Dickens specification or file history, the meaning to be attributed to this clause is in doubt. It is clear, however that there is no distinction between this clause of the claim and the reference.</p>

Reissue application, claim 63	Japan 06-103133, April 15, 1994 [Citations are to the paragraph numbers in the text of both the Japanese publication and in the translation]
A method for representing and utilizing dates stored in at least one date field of a database utilizing symbolic representations of the dates stored in the at least one date field of the database, which are in a format that creates ambiguity between dates in each of a pair of adjacent centuries, comprising the steps of:	The reference is directed at managing date keys of a data file, [Title] which is effected by processing date representations in a database. Each item of data is a symbolic representation. The problem solved by the invention is the inversion in time sequence caused by the use of two digit year indications at the year 2000. [0005]
converting each of the symbolic representations of dates stored in the at least one date field of the database to a symbolic representation of each of the respective dates that does not create the ambiguity, by windowing the symbolic representations of each of the respective dates as stored in the at least one date field of the database against a pivot year represented by one of the symbolic representations of the dates as stored in the at least one date field of the database, without the addition of any new data field to the database for purposes of such windowing and converting;	Assuming the term "windowing" and "pivot year" are given the common definition, then the "threshold value" of the reference corresponds to the beginning of the "window" as well as the "pivot year". The assumption is necessary since the terms "windowing" and "pivot year" are not found in the Dickens specification. The unprocessed database uses two digits to represent year data, see the data in date file 1, an example is the first entry, "991203" which represents 3 rd Dec. 1999 [0003]. The symbolic representations are amended by adding either "19" or "20" to represent the 20 th and 21 st century, respectively [0015]. Note also that the processing is applied to "the successive records of data file 1 and terminates when the last record is processed", i.e., the processing is applied to "each" record [0015]. Assuming that the claimed "pivot year" has the common meaning in the art, then the "threshold year" of the reference corresponds to the pivot year. The processing selects a "threshold value" or α which is "no later" than the earliest year in the database. The threshold value is selected as between n_0n_1 , the smallest 20 th Century year and the lower value n_2n_3 , which is the maximum value of the 21 st Century [0011]. Then a comparison is made between the date data, nn, and the threshold value, α ; if $nn > \alpha$, the "19" designator is selected, otherwise "20" is selected. Since the nn may be equal to the "threshold value" (if nn is not $> \alpha$, then it is \leq) which means that the

	<p>"threshold value" may be a date stored in the database.</p> <p>The reference does not describe that the "threshold" or "pivot year" is a data point in the database, i.e., "a pivot year represented by one of the symbolic representations of the dates as stored in the at least one date field of the database". The Dickens specification also fails to describe this feature. If the feature is not ignored then the claim has no description support. If the feature is ignored then it cannot be used to distinguish the reference.</p>
<p>storing the converted symbolic representations separate from the at least one date field of the database: and</p>	<p>Fig. 2 and the table of key file 3 make it clear that the converted data is stored. The meaning to be attributed to "storing ... separate from the at least one date field of the database" is not clear since there is no such phrase, or anything like it, to be found in the Dickens specification or file history. In any event, this cannot be a basis to distinguish the reference.</p>
<p>running a program collectively on the stored converted symbolic representations to sort or otherwise manipulate the dates represented by the converted symbolic representations, separately from the symbolic representations of dates contained in the at least one date field of the database.</p>	<p>Sorting is effected as described in [0006]. Since the phrase "running a program ... to sort ... separately from the date data symbolic representations contained in the at least one date field of the database" is not found either in the Dickens specification or file history, the meaning to be attributed to this clause is in doubt. It is clear, however that there is no distinction between this clause of the claim and the reference.</p>

Reissue application, claim 64	Japan 06-103133, April 15, 1994 [Citations are to the paragraph numbers in the text of both the Japanese publication and in the translation]
A method for representing and utilizing dates stored in at least one date field of a database utilizing symbolic representations of the dates stored in the at least one date field at the database, which are in a format that creates ambiguity between dates in each of a pair of adjacent centuries, comprising the steps of;	The reference is directed at managing date keys of a data file, [Title] which is effected by processing date representations in a database. Each item of data is a symbolic representation. The problem solved by the invention is the inversion in time sequence caused by the use of two digit year indications at the year 2000. [0005]
converting each of the symbolic representations of dates stored in the at least one date field of the database to a symbolic representation of each of the respective dates that does not create the ambiguity, by windowing the symbolic representations of each of the respective dates as stored in the at least one date field of the database against a pivot year represented by one of the symbolic representations of the dates as stored in the at least one date field of the database, without modifying any of the symbolic representations of dates in the at least one date field of the database for purposes of such windowing and converting;	Assuming the term "windowing" and "pivot year" are given the common definition, then the "threshold value" of the reference corresponds to the beginning of the "window" as well as the "pivot year". The assumption is necessary since the terms "windowing" and "pivot year" are not found in the Dickens specification. The unprocessed database uses two digits to represent year data, see the data in date file 1, an example is the first entry, "991203" which represents 3 rd Dec. 1999 [0003]. The symbolic representations are amended by adding either "19" or "20" to represent the 20 th and 21 st century, respectively [0015]. Note that the processing is applied to "the successive records of data file 1 and terminates when the last record is processed", i.e., the processing is applied to "each" record [0015]. Assuming that the claimed "pivot year" has the common meaning in the art, then the "threshold year" of the reference corresponds to the pivot year. The processing selects a "threshold value" or α which is "no later" than the earliest year in the database. The threshold value is selected as between n_0n_1 , the smallest 20 th Century year and the lower value, n_2n_3 , which is the maximum value of the 21 st Century date range [0011]. Then a comparison is made between the date data, nn, and the threshold value, α ; if $nn > \alpha$, the "19" designator is selected, otherwise "20" is selected. Since the nn may be equal to the "threshold value" (if nn is not $> \alpha$, then it is \leq) which means

	<p>that the "threshold value" may be a date stored in the database. The meaning to be attributed to the phrase "converting ... without modifying ..." is not apparent since there is no such phrase (or anything like it) to be found in either the Dickens specification or the file history. Clearly, however, this phrase does not distinguish from the reference.</p> <p>The reference does not describe that the "threshold" or "pivot year" is a data point in the database, i.e., "a pivot year represented by one of the symbolic representations of the dates as stored in the at least one date field of the database". The Dickens specification also fails to describe this feature. If the feature is not ignored then the claim has no description support. If the feature is ignored then it cannot be used to distinguish the reference.</p>
<p>storing the converted symbolic representations separate from the at least one date field in the database; and</p>	<p>Fig. 2 and the table of key file 3 make it clear that the converted data is stored. The meaning to be attributed to "storing ... separate from the at least one date field of the database" is not clear since there is no such phrase, or anything like it, to be found in the Dickens specification or file history. In any event, this cannot be a basis to distinguish the reference.</p>
<p>running a program on the stored converted symbolic representations to sort or otherwise manipulate data in the database according to the dates represented by the converted symbolic representations separately from the symbolic representations of dates contained in the at least one date field of the database.</p>	<p>Sorting is effected as described in [0006]. Since the phrase "running a program ... to sort ... separately from the symbolic representations of dates contained in the at least one date field of the database" is not found either in the Dickens specification or file history, the meaning to be attributed to this clause is in doubt. It is clear, however that there is no distinction between this clause of the claim and the reference.</p>

Reissue Application, claim 65	Japan 06-103133, April 15, 1994 [Citations are to the paragraph numbers in the text of both the Japanese publication and in the translation]
A method for representing and utilizing dates stored in at least one date field of a database utilizing symbolic representations of the dates stored in the at least one date field of the database, which are in a format that creates ambiguity between dates in each of a pair of adjacent centuries comprising the steps of:	The reference is directed at managing date keys of a data file, [Title] which is effected by processing date representations in a database. Each item of data is a symbolic representation. The problem solved by the invention is the inversion in time sequence caused by the use of two digit year indications at the year 2000. [0005]
converting each of the symbolic representations of dates stored in the at least one date field of the database to a symbolic representation of each of the respective dates that does not create the ambiguity, by windowing the symbolic representations of each of the respective dates as stored in the at least one date field of the database against a pivot year represented by one of the symbolic representations of the dates as stored in the at least one date field of the database,	Assuming the term "windowing" and "pivot year" are given the common definition, then the "threshold value" of the reference corresponds to the beginning of the "window" as well as the "pivot year". The assumption is necessary since the terms "windowing" and "pivot year" are not found in the Dickens specification. The unprocessed database uses two digits to represent year data, see the data in date file 1, an example is the first entry, "991203" which represents 3 rd Dec. 1999 [0003]. The symbolic representations are amended by adding either "19" or "20" to represent the 20 th and 21 st century, respectively [0015]. Note that the processing is applied to "the successive records of data file 1 and terminates when the last record is processed", i.e., the processing is applied to "each" record [0015]. Assuming that the claimed "pivot year" has the common meaning in the art, then the "threshold year" of the reference corresponds to the pivot year. The processing selects a "threshold value" or α which is "no later" than the earliest year in the database. The threshold value is selected as between n_0n_1 , the smallest 20 th Century year and the lower value, n_2n_3 , which is the maximum value of the 21 st Century date range [0011]. Then a comparison is made between the date data, nn , and the threshold value, α ; if $nn > \alpha$, the "19" designator is selected, otherwise "20" is selected. Since the nn may be equal to the "threshold value" (if nn is not $> \alpha$, then it is \leq) which means

	<p>that the "threshold value" may be a date stored in the database.</p> <p>The reference does not describe that the "threshold" or "pivot year" is a data point in the database, i.e., "a pivot year represented by one of the symbolic representations of the dates as stored in the at least one date field of the database". The Dickens specification also fails to describe this feature. If the feature is not ignored then the claim has no description support. If the feature is ignored then it cannot be used to distinguish the reference.</p>
without modifying any of the symbolic representations of dates in the at least one date field of the database for purposes of such windowing and converting;	<p>It is not apparent how "converting" can be effected without "modifying". There is no mention of converting without modifying in either the Dickens specification or file history. Consequently this cannot be used to distinguish the claim from the reference.</p>
storing the converted symbolic representations separate from the at least one date field in the database; and	<p>Fig. 2 and the table of key file 3 make it clear that the converted data is stored. The meaning to be attributed to "storing ... separate from the at least one date field of the database" is not clear since there is no such phrase, or anything like it, to be found in the Dickens specification or file history. In any event, this cannot be a basis to distinguish the reference.</p>
running a program collectively on the stored, converted symbolic representations to sort or otherwise manipulate the dates represented by the converted symbolic representations,	<p>Sorting is effected as described in [0006]</p>
separately from the symbolic representations of dates contained in the at least one date field of the database.	<p>Since the phrase "running a program ... to sort ... separately from the symbolic representations of dates contained in the at least one date field of the database" is not found either in the Dickens specification or file history, the meaning to be attributed to this clause is in doubt. It is clear, however that there is no distinction between this clause of the claim and the reference.</p>

Reissue application, claim 66	Japan 06-103133, April 15, 1994 [Citations are to the paragraph numbers in the text of both the Japanese publication and in the translation]
A method of processing dates in a database, comprising the steps of:	The reference is directed at managing date keys of a data file, [Title
providing a database with dates stored in at least one date field therein according to a format wherein M_1M_2 is the numerical month designator, D_1D_2 is the numerical day designator, and Y_1Y_2 is the numerical year designator,	The unprocessed database uses two digits to represent year data, two digits for month data and two digits for day data, see the data in date file 1, an example is the first entry, "991203" which represents 3 rd Dec. 1999 [0003].
selecting a window with a Y_AY_B value for a pivot date of the window Y_AY_B being no later than the earliest Y_1Y_2 year designator in the database;	Assuming that the meaning to be attributed to "pivot date" is the common meaning, then the "threshold value" is the pivot date, which is the same as Y_AY_B . This assumption is necessary since neither the Dickens specification nor file history mentions "pivot date". The "threshold value" or α corresponds to Y_AY_B and it is "no later" than the earliest Y_1Y_2 since it is selected as between n_0n_1 , the minimum value of the 20 th Century date range and the lower value, n_2n_3 , which is the maximum value of the 21 st Century date range [0011]
determining a century designator C_1C_2 for each date in the database, C_1C_2 having a first value if Y_1Y_2 is less than Y_AY_B and having a second value if Y_1Y_2 is equal to or greater than Y_AY_B ,	A comparison is made between the date data, nn , and the threshold value, α ; if $nn > \alpha$, the century designator "19" is used, otherwise, that is if $nn \leq \alpha$, the other century designator, "20" is used [0015]. Note that the processing is applied to "the successive records of data file 1 and terminates when the last record is processed", i.e., the processing is applied to "each" record [0015].
reformatting the symbolic representation of each symbolic representation of a date in a portion of the at least one date field in the database, without the addition of any new data field to the database, with the reformatted symbolic representation of each date in the database having the values C_1C_2 , Y_1Y_2 , M_1M_2 , and D_1D_2 ; and	The date data, augmented with the century designator (19 or 20), is then written to key file 3; as seen there the date data has been reformatted to add the century designator. That is, we start with $Y_1Y_2M_1M_2D_1D_2$ and append C_1C_2 , to end up with $C_1C_2Y_1Y_2M_1M_2D_1D_2$.
repeating the step of reformatting until each symbolic representation of a date in the at least one date field has been reformatted in order to facilitate collectively further processing the reformatted symbolic	Since the processing is applied to "the successive records of data file 1 and terminates when the last record is processed", i.e., the processing is applied to "each" record. [0015]

representations of each of the
symbolic representations of each of
the dates.

Reissue Application, claim 67	Japan 06-103133, April 15, 1994 [Citations are to the paragraph numbers in the text of both the Japanese publication and in the translation]
A method of processing dates in a database, comprising the steps of:	The reference is directed at managing date keys of a data file, [Title]
providing a database with dates stored in at least one date field therein according to a format wherein Y_1Y_2 is the numerical year designator;	The unprocessed database uses two digits to represent year data, see the data in date file 1, an example is the first entry, "991203" which represents 3 rd Dec. 1999 [0003].
selecting a window with a Y_AY_B value for a pivot date of the window, Y_AY_B being no later than the earliest Y_1Y_2 year designator in the database;	The "threshold value" or α corresponds to Y_AY_B and it is "no later" than the earliest Y_1Y_2 since it is selected as between n_0n_1 , the minimum value of the 20 th Century and the lower value n_2n_3 , which is the maximum value of the 21 st Century date range [0011].
determining a century designator C_1C_2 for each date in the database, C_1C_2 having a first value if Y_1Y_2 is less than Y_AY_B and having a second value if Y_1Y_2 is equal to or greater than Y_AY_B ;	A comparison is made between the date data, nn, and the threshold value, α ; if $nn > \alpha$, the century designator "19" is used, otherwise, that is if $nn \leq \alpha$, the other century designator, "20" is used [0015]. Note that the processing is applied to "the successive records of data file 1 and terminates when the last record is processed", i.e., the processing is applied to "each" record [0015].
reformatting the symbolic representation of each symbolic representation of a date in a portion off the at least one date field in the database, without the addition of any new data field to the database, with the reformatted symbolic representation of each date in the database having the values C_1C_2 , Y_1Y_2 ; and	The date data, augmented with the century designator (19 or 20), is then written to key file 3; as seen there the date data has been reformatted to add the century designator. The reference has added two digits, 19 or 20, to represent the century, just as described in the Dickens specification. While the reformatting has added two digits to the year field (expanding it from YY to CCYY) this is accomplished without adding a new field - it is accomplished in the reference in exactly the same fashion as it is accomplished in Dickens.
repeating the step of reformatting until each symbolic representation of a date in the at least one date field has been reformatted in order to facilitate collectively further processing the reformatted symbolic representations of each of the symbolic representations of each of the dates.	Since the processing is applied to "the successive records of data file 1 and terminates when the last record is processed", i.e., the processing is applied to "each" record. [0015] Once the reformatting has been accomplished, the reformatted dates can be sorted, in other words the reformatting has facilitated further processing, processing which can be carried out collectively since all the

[redacted] data has been reformatted.

Reissue Application, claim 68	Japan 06-103133, April 15, 1994 [Citations are to the paragraph numbers in the text of both the Japanese publication and in the translation]
A method of processing symbolic representations of dates stored in a database, comprising the steps of:	The reference is directed at managing date keys of a data file, [Title]
providing a database with symbolic representations of dates stored in at least one date field therein according to a format wherein Y_1Y_2 is the numerical year designator;	The unprocessed database uses two digits to represent year data, see the data in date file 1, an example is the first entry, "991203" which represents 3 rd Dec. 1999 [0003].
selecting a window with a Y_AY_B value for the first decade of the window, Y_AY_B being no later than the earliest Y_1Y_2 year designator in the at least one date field of the database;	Assuming the term "window" is given the common definition, then the "threshold value" of the reference corresponds to the beginning of the "window". The assumption is necessary since the term "window" is not found in the Dickens specification. The "threshold value" or α corresponds to Y_AY_B and it is "no later" than the earliest Y_1Y_2 since it is selected as between n_0n_1 , the minimum value of the 20 th Century date range and the lower value, n_2n_3 , which is the maximum value of the 21 st Century date range [0011]. The value of α defines a window of 10 decades duration.
determining a century designator for each symbolic representation of a date in the database, C_1C_2 having a first value if Y_1Y_2 is less than Y_AY_B and having a second value if Y_1Y_2 is equal to or greater than Y_AY_B ; and	A comparison is made between the date data, nn , and the threshold value, α ; if $nn > \alpha$, the century designator "19" is used, otherwise, that is if $nn \leq \alpha$, the other century designator, "20" is used [0015]. Since the processing is applied to "the successive records of data file 1 and terminates when the last record is processed", i.e., the processing is applied to "each" record. [0015]
reformatting the symbolic representation of each symbolic representation of a date in at least one date field in the database, without the addition of any new data field to the database, with the reformatted symbolic representation of each date in the database having the values C_1C_2 , Y_1Y_2 , in order to facilitate further processing of the reformatted symbolic representations of each of the symbolic representations of each of the dates, by running a program on the reformatted symbolic representations of each of the dates.	The date data, augmented with the century designator (19 or 20), is then written to key file 3; as seen there the date data has been reformatted to add the century designator. That is, we start with $Y_1Y_2M_1M_2D_1D_2$ and append C_1C_2 , to end up with $C_1C_2Y_1Y_2M_1M_2D_1D_2$. The reference has added two digits to represent the century, just as has Dickens. To the extent this is "without the addition ..." in the Dickens patent, so too it is in the reference. The reference accomplishes its ends through use of a programmed machine, hence operation "by running a program" is inherent.

Reissue Application, claim 69	Japan 06-103133, April 15, 1994 [Citations are to the paragraph numbers in the text of both the Japanese publication and in the translation]
A method of processing dates in a database, comprising the steps of:	The reference is directed at managing date keys of a data file, [Title].
providing a database with dates stored in at least one date field therein according to a format wherein Y_1Y_2 is the numerical year designator;	The unprocessed database uses two digits to represent year data, see the data in date file 1, an example is the first entry, "991203" which represents 3 rd Dec. 1999 [0003].
selecting a window with a Y_AY_B value for a pivot year of the window, Y_AY_B being no later than the earliest Y_1Y_2 year designator in the database:	Assuming the term "window" and "pivot year" are given the common definition, then the "threshold value" of the reference corresponds to the beginning of the "window" as well as the "pivot year". The assumption is necessary since the terms "window" and "pivot year" are not found in the Dickens specification. The "threshold value" or α corresponds to Y_AY_B and it is "no later" than the earliest Y_1Y_2 since it is selected as between n_0n_1 , the minimum value of the 20 th Century date range and the lower value, n_2n_3 , which is the maximum value of the 21 st Century date range [0011]. The value of α defines a window of 10 decades duration.
determining a century designator C_1C_2 for each date in the at least one date field of the database, C_1C_2 having a first value if Y_1Y_2 is less than Y_AY_B and having a second value if Y_1Y_2 is equal to or greater than Y_AY_B ;	A comparison is made between the date data, nn , and the threshold value, α ; if $nn > \alpha$, the century designator "19" is used, otherwise, that is if $nn \leq \alpha$, the other century designator, "20" is used [0015]. Since the processing is applied to "the successive records of data file 1 and terminates when the last record is processed", i.e., the processing is applied to "each" record. [0015]
reformatting the symbolic representation of each symbolic representation of a date in the at least one date field in the database, without the addition of any new data field to the database with the reformatted symbolic representation of each date in the database having the values C_1C_2 , Y_1Y_2 ;	The date data, augmented with the century designator (19 or 20), is then written to key file 3; as seen there the date data has been reformatted to add the century designator. The reference has added two digits to represent the century, just as has Dickens, to the extent this is "without the addition ..." in the Dickens patent, so too it is in the reference.
sorting the reformatted symbolic representations of the dates in the form $C_1C_2Y_1Y_2$ and	Sorting is effected as described in [0006]. Both the reference and the Dickens specification describe sorting on $C_1C_2Y_1Y_2M_1M_2D_1D_2$. There is no

	<p>description in the Dickens specification of sorting on $C_1C_2Y_1Y_2$ as claimed here. Thus to this extent this claim lacks written description support. Dickens has argued that disclosure of sorting on $C_1C_2Y_1Y_2M_1M_2D_1D_2$ supports claiming sorting on $C_1C_2Y_1Y_2$, see p. 58 of the response. If that is the case then the reference's teaching of sorting on $C_1C_2Y_1Y_2M_1M_2D_1D_2$ is an anticipation of the claim.</p>
<p>running a program on the reformatted symbolic representations of each of the dates.</p>	<p>The "program" is the purpose for maintaining the file or database, i.e., it is inherent. In other words the database is maintained in order to accomplish some real work. The database is maintained on a programmable machine and so the real work is accomplished by running a program.</p>

Reissue application, claim 70	Japan 06-103133, April 15, 1994 [Citations are to the paragraph numbers in the text of both the Japanese publication and in the translation]
A method for representing and utilizing dates stored in at least one date field of a database utilizing symbolic representations of the dates stored in at least one date field of the database, which are in a format that creates ambiguity between dates in each of a pair of adjacent centuries, comprising the steps of	The reference is directed at managing date keys of a data file, [Title] which is effected by processing date representations in a database. Each item of data is a symbolic representation. The problem solved by the invention is the inversion in time sequence caused by the use of two digit year indications at the year 2000. [0005]
converting each of the symbolic representations of dates stored in the at least one date field of the database to a symbolic representation of each of the respective dates that does not create the ambiguity,	The unprocessed database uses two digits to represent year data, see the data in date file 1, an example is the first entry, "991203" which represents 3 rd Dec. 1999 [0003]. The symbolic representations are amended by adding either "19" or "20" to represent the 20 th and 21 st century, respectively [0015]. Note also that the processing is applied to "the successive records of data file 1 and terminates when the last record is processed", i.e., the processing is applied to "each" record [0015]
by windowing the symbolic representations of each of the respective dates as stored in the at least one date field of the database against a pivot year, with the pivot year being less than or equal to the earliest date represented by the symbolic representation of dates stored in the at least one date field, without the addition of any new data field to the database, and	Assuming the term "window" and "pivot year" are given the common definition, then the "threshold value" of the reference corresponds to the beginning of the "window" as well as the "pivot year". The assumption is necessary since the terms "window" and "pivot year" are not found in the Dickens specification. A threshold value is selected lying between n_0n_1 , the smallest 20 th Century year and the lower value, n_2n_3 , which is the maximum value of the 21 st Century date range [0011]. Then a comparison is made between the date data, nn, and the threshold value, α ; if $nn > \alpha$, the "19" designator is selected, otherwise "20" is selected. The "threshold value" or pivot year is equal to or less than the earliest nn. The reference has added two digits, 19 or 20, to represent the century, just as is described in the Dickens specification. To the extent this is "without the addition ..." in the Dickens patent, so too it is in the reference.

<p>without modifying any of the symbolic representations of dates in the at least one date field, for purposes of such windowing and converting and</p>	<p>The meaning to be attributed to the phrase "converting ... without modifying ..." is not apparent since there is no such phrase (or anything like it) to be found in either the Dickens specification or the file history. Clearly, however, this phrase does not distinguish from the reference.</p>
<p>running a program on the converted symbolic representations of each of the dates to sort or otherwise manipulate the dates represented by the converted symbolic representations, separately from the date data symbolic representations contained in the at least one date field of the database.</p>	<p>Sorting is effected as described in [0006]. Typically sorting is effected by a program and so "running a program ... to sort" is inherent in the reference. Since the phrase "running a program ... to sort ... separately from the date data symbolic representations contained in the at least one date field of the database" is not found either in the Dickens specification or file history, the meaning to be attributed to this clause is in doubt. It is clear, however that there is no distinction between this clause of the claim and the reference.</p>

Reissue application, claim 71	Japan 06-103133, April 15, 1994 [Citations are to the paragraph numbers in the text of both the Japanese publication and in the translation]
A method for representing and utilizing dates stored in at least one date field of the database utilizing symbolic representations of the dates stored in the at least one date field of the database, which are in a format that creates ambiguity between dates in each of a pair of adjacent centuries, comprising the steps of	The reference is directed at managing date keys of a data file, [Title] which is effected by processing date representations in a database. Each item of data is a symbolic representation. The problem solved by the invention is the inversion in time sequence caused by the use of two digit year indications at the year 2000. [0005]
converting each of the symbolic representations of dates stored in the at least one date field of the database to a symbolic representation of each of the respective dates that does not create the ambiguity,	The unprocessed database uses two digits to represent year data, see the data in date file 1, an example is the first entry, "991203" which represents 3 rd Dec. 1999 [0003]. The symbolic representations are amended by adding either "19" or "20" to represent the 20 th and 21 st century, respectively [0015]. Note also that the processing is applied to "the successive records of data file 1 and terminates when the last record is processed", i.e., the processing is applied to "each" record [0015]
by windowing the symbolic representations of each of the respective dates as stored in the at least one date field of the database against a pivot year, with the pivot year being less than or equal to the earliest date represented by a symbolic representation of dates stored in the at least one date field, and	Assuming the term "windowing" and "pivot year" are given the common definition, then the "threshold value" of the reference corresponds to the beginning of the "window" as well as the "pivot year". The assumption is necessary since the terms "windowing" and "pivot year" are not found in the Dickens specification. The processing selects a "threshold value" or α which is "no later" than the earliest year in the database. A threshold value is selected lying between n_0n_1 , the smallest 20 th Century year and the lower value, n_2n_3 , which is the maximum value of the 21 st Century date range [0011]. Then a comparison is made between the date data, nn , and the threshold value, α ; if $nn > \alpha$, the "19" designator is selected, otherwise "20" is selected. This is the process, known to others as "windowing", although not mentioned in the specification. In this process, the "threshold value" is, according to prior art usage, the pivot year. although that term is not found in the

	Dickens specification.
without the addition of any new data field to the database for purposes of such windowing and converting;	The reference has added two digits, 19 or 20, to represent the century, just as is described in the Dickens specification. Thus while the year field has been expanded (from YY to CCYY) no new field has been added. Since the reference and the patent's disclosure accomplish the reformatting in essentially the same manner, this clause cannot distinguish from the reference.
storing each of the converted symbolic representations of each of the dates separate from the database; and,	The key file 3 represents the stored dates. The meaning to be attributed to "storing ... separate from the database" is not clear since there is no such phrase, or anything like it, to be found in the Dickens specification or file history. In any event, this cannot be a basis to distinguish the reference.
running a program on the stored converted symbolic representations of each of the converted symbolic representations of the dates to sort or otherwise manipulate the dates represented by the converted symbolic representations,	Sorting is effected as described in [0006]. Typically sorting is effected by running a program and so this is inherent in the reference.
separately from the date data symbolic representations contained in the at least one date field of the database.	Since the phrase "running a program ... to sort ... separately from the date data symbolic representations contained in the at least one date field of the database" is not found either in the Dickens specification or file history, the meaning to be attributed to this clause is in doubt. It is clear, however that there is no distinction between this clause of the claim and the reference.

Reissue Application, claim 72	Japan 06-103133, April 15, 1994 [Citations are to the paragraph numbers in the text of both the Japanese publication and in the translation]
A method of processing symbolic representations of dates stored in a database, comprising the steps of	The reference is directed at managing date keys of a data file, [Title] which is effected by processing date representations in a database. Each item of data is a symbolic representation
selecting a database with symbolic representations of dates stored therein according to a format wherein M_1M_2 is the numerical month designator, D_1D_2 is the numerical day designator, and Y_1Y_2 is the numerical year designator;	The unprocessed database uses two digits to represent year data, see the data in date file 1, an example is the first entry, "991203" which represents 3 rd Dec. 1999 [0003]. The shows the use of two digits for year, month and date.
selecting a 10-decade window with a Y_{AY_B} value for the first decade of the window being no later than the earliest Y_1Y_2 year designator in the database;	The "threshold value" or α corresponds to Y_{AY_B} and it is "no later" than the earliest Y_1Y_2 since it is selected as between n_0n_1 , the minimum value of the 20 th Century and the lower value, n_2n_3 , which is the maximum value of the 21 st Century date range [0011]. The text [0010 and 0011] make it clear that the date range is limited "The reason for this is that the data file 1 does not contain the year data '2099' or '1900'." and there is a "minimum value of the year data in the 20 th century" and a "maximum value of the year data in the 21 st century" with the "threshold value" in between these two. This is only possible if the span of the data base is 10 decades.
determining a century designator C_1C_2 for each symbolic representation of a date in the database, C_1C_2 having a first value if Y_1Y_2 is less than Y_{AY_B} and having a second value if Y_1Y_2 is equal to or greater than Y_{AY_B} ; and,	A comparison is made between the date data, nn , and the threshold value, α ; if $nn > \alpha$, the century designator "19" is used, otherwise, that is if $nn \leq \alpha$, the other century designator, "20" is used [0015]. Note also that the processing is applied to "the successive records of data file 1 and terminates when the last record is processed", i.e., the processing is applied to "each" record. [0015]
reformatting the symbolic representation of each symbolic representation of a date in the database with the values C_1C_2 , Y_1Y_2 , M_1M_2 , D_1D_2 prior to collectively further processing information contained within the database associated with the respective dates.	The date data, augmented with the century designator (19 or 20), is then written to key file 3; as seen there the date data has been reformatted to add the century designator. Thereafter the database is used for its intended purpose. The reformatting has facilitated the further processing of the entire file - i.e.,

collectively. While further processing is inherent in the reference - that is the purpose for which the database 1 is maintained, this claim does not actually require such further processing. Rather the claim merely requires that the reformatting facilitate such further processing.

Reissue application, claim 73	Japan 06-103133, April 15, 1994 [Citations are to the paragraph numbers in the text of both the Japanese publication and in the translation]
A method of processing symbolic representations of dates stored in a database comprising the steps of	The reference is directed at managing date keys of a data file, [Title] which is effected by processing date representations in a database. Each item of data is a symbolic representation
providing a database with symbolic representations of dates stored therein according to a format wherein Y_1Y_2 is the numerical year designator, all of the symbolic representations of dates falling within a 10-decade period of time;	The unprocessed database uses two digits to represent year data, see the data in date file 1, an example is the first entry, "991203" which represents 3 rd Dec. 1999 [0003]. The text [0010 and 0011] make it clear that the date range is limited "The reason for this is that the data file 1 does not contain the year data '2099' or '1900'" and there is a "minimum value of the year data in the 20 th century" and a "maximum value of the year data in the 21 st century" with the "threshold value" in between these two. This is only possible if the span of the data base is less than 10 decades.
selecting a 10-decade window with a Y_AY_B value for the first decade of the window, Y_AY_B being no later than the earliest Y_1Y_2 year designator in the database;	The "threshold value" or α corresponds to Y_AY_B and it is "no later" than the earliest Y_1Y_2 since it is selected as between n_0n_1 , the minimum value of the 20 th Century and the lower value, n_2n_3 , which is the maximum value of the 21 st Century date range [0011].
determining a century designator C_1C_2 for each symbolic representation of a date in the database C_1C_2 having a first value if Y_1Y_2 is less than Y_AY_B and having a second value if Y_1Y_2 is equal to or greater than Y_AY_B and,	A comparison is made between the date data, nn , and the threshold value, α ; if $nn > \alpha$, the century designator "19" is used, otherwise, that is if $nn \leq \alpha$, the other century designator, "20" is used [0015]. Note also that the processing is applied to "the successive records of data file 1 and terminates when the last record is processed", i.e., the processing is applied to "each" record. [0015]
reformatting the symbolic representation of the date with the values C_1C_2 , Y_1Y_2 , to facilitate further processing of the dates.	The date data, augmented with the century designator (19 or 20), is then written to key file 3; as seen there the date data has been reformatted to add the century designator. Since the reformatted data can now be sorted the reformatting is accomplished to facilitate the further processing.

Reissue application, claim 74	Japan 06-103133, April 15, 1994 [Citations are to the paragraph numbers in the text of both the Japanese publication and in the translation]
A method of processing dates in a database, comprising the steps of	The reference is directed at managing date keys of a data file, [Title] which is effected by processing date representations in a database.
providing a database with symbolic representations of dates stored therein according to a format wherein Y_1Y_2 is the numerical year designator, all of symbolic representations of dates falling within a 10-decade period of time;	The unprocessed database uses two digits to represent year data, see the data in date file 1, an example is the first entry, "991203" which represents 3 rd Dec. 1999 [0003]. The text [0010 and 0011] make it clear that the date range is limited "The reason for this is that the data file 1 does not contain the year data '2099' or '1900'" and there is a "minimum value of the year data in the 20 th century" and a "maximum value of the year data in the 21 st century" with the "threshold value" in between these two. This is only possible if the span of the data base is less than 10 decades.
selecting a 10-decade window with a Y_AY_B value for the first decade of the window Y_AY_B being no later than the earliest Y_1Y_2 year designator in the database;	The "threshold value" or α corresponds to Y_AY_B and it is "no later" than the earliest Y_1Y_2 since it is selected as between n_0n_1 , the minimum value of the 20 th Century years and the lower value, n_2n_3 , which is the maximum value of the 21 st Century years [0011].
determining a century designator C_1C_2 , for each date in the database, C_1C_2 having a first value if Y_1Y_2 is less than Y_AY_B and having a second value if Y_1Y_2 is equal to or greater than Y_AY_B ;	A comparison is made between the date data, nn , and the threshold value, α ; if $nn > \alpha$, the century designator "19" is used, otherwise, that is if $nn \leq \alpha$, the other century designator, "20" is used [0015]. Note also that the processing is applied to "the successive records of data file 1 and terminates when the last record is processed", i.e., the processing is applied to "each" record. [0015]
reformatting each date in the form $C_1C_2Y_1Y_2$ to facilitate further processing of the dates; and,	The date data, augmented with the century designator (19 or 20), is then written to key file 3; as seen there the date data has been reformatted to add the century designator. Strictly speaking the reference describes the data format $C_1C_2Y_1Y_2M_1M_2D_1D_2$ not $C_1C_2Y_1Y_2$. However, the Dickens specification has the same disclosure so there can be no distinction between the claim and the reference.

sorting the dates in the form C₁C₂Y₁Y₂.

Sorting is effected [0012] on the reformatted data. Both the reference and the Dickens specification describe sorting on the C₁C₂Y₁Y₂M₁M₂D₁D₂ date data, thus this recitation cannot distinguish from the reference.

Reissue Application, claim 75	Japan 06-103133, April 15, 1994 [Citations are to the paragraph numbers in the text of both the Japanese publication and in the translation]
A method of processing symbolic representations of dates stored in a database, comprising the steps of	The reference is directed at managing date keys of a data file, [Title] which is effected by processing date representations in a database. Each item of data is a symbolic representation
providing a database with symbolic representations of dates stored therein according to a format wherein M_1M_2 is the numerical month designator, D_1D_2 is the numerical day designator, and Y_1Y_2 is the numerical year designator;	The unprocessed database uses two digits to represent year data, see the data in date file 1, an example is the first entry, "991203" which represents 3 rd Dec. 1999 [0003], showing the use of two digits for year, month and day.
selecting a window with a Y_AY_B value for a pivot date of the window, Y_AY_B being no later than the earliest Y_1Y_2 year designator in the database:	The "threshold value" or α corresponds to Y_AY_B and it is "no later" than the earliest Y_1Y_2 since it is selected as between n_0n_1 , the minimum value of the 20 th Century years and the lower value n_2n_3 , which is the maximum value of the 21 st Century years [0011]. The "threshold value" of the reference corresponds to the prior art term "pivot date", although that term is not found in the Dickens specification or file history.
determining a century designator C_1C_2 for each symbolic representation of a date in the database, C_1C_2 having a first value if Y_1Y_2 is less than Y_AY_B and having a second value if Y_1Y_2 is greater than Y_AY_B ; and	A comparison is made between the date data, nn , and the threshold value, α ; if $nn > \alpha$, the century designator "19" is used, otherwise, that is if $nn \leq \alpha$, the other century designator, "20" is used [0015]. Note also that the processing is applied to "the successive records of data file 1 and terminates when the last record is processed", i.e., the processing is applied to "each" record. [0015]
reformatting the symbolic representation of each symbolic representation of a date in the database, without the addition of any new data field to the database, with the reformatted symbolic representation of each date in the database having the values C_1C_2 , Y_1Y_2 , M_1M_2 , D_1D_2 in order to facilitate further processing of the reformatted symbolic representations, of each of the symbolic representations of each of the dates.	The date data, augmented with the century designator (19 or 20), is then written to key file 3; as seen there the date data has been reformatted to add the century designator. Inasmuch as the unprocessed database had used Y_1Y_2 , M_1M_2 , D_1D_2 , the addition of "19" or "20" meets the requirement of having the values C_1C_2 , Y_1Y_2 , M_1M_2 , D_1D_2 to facilitate further processing. The reference has added two digits to represent the century, just as in the Dickens specification. This allows sorting of the dates, thus facilitating further processing.

	While the year field has been expanded from YY to CCYY, no new fields are required. Since the reference and the patent specification both augment the year field in substantially the same manner it is apparent this clause cannot distinguish the claim.
--	--

Reissue Application, claim 76	Japan 06-103133, April 15, 1994 [Citations are to the paragraph numbers in the text of both the Japanese publication and in the translation]
A method of processing dates in a database, comprising the steps of	The reference is directed at managing date keys of a data file, [Title] which is effected by processing date representations in a database.
providing a database with dates stored therein according to a format wherein M_1M_2 is the numerical month designator, D_1D_2 is the numerical day designator, and Y_1Y_2 is the numerical year designator;	The unprocessed database uses two digits to represent year data, two digits for month data and two digits for day, see the data in date file 1, an example is the first entry, "991203" which represents 3 rd Dec. 1999 [0003]
selecting a window with a Y_AY_B value for a pivot date of the window, Y_AY_B being no later than the earliest Y_1Y_2 year designator in the database;	The "threshold value" or α corresponds to Y_AY_B and it is "no later" than the earliest Y_1Y_2 since it is selected as between n_0n_1 , the minimum value of the 20 th Century and the lower value, n_2n_3 , which is the maximum value of the 21 st Century date range [0011]. The "threshold value" of the reference corresponds to the prior art term "pivot date", although that term is not found in the Dickens specification or file history.
determining a century designator C_1C_2 for each date in the database, C_1C_2 having a first value if Y_1Y_2 is less than Y_AY_B and having a second value if Y_1Y_2 is equal to or greater than Y_AY_B ;	A comparison is made between the year date data, nn , and the threshold value, α ; if $nn > \alpha$, the century designator "19" is used, otherwise, that is if $nn \leq \alpha$, the other century designator, "20" is used [0015]. Note also that the processing is applied to "the successive records of data file 1 and terminates when the last record is processed", i.e., the processing is applied to "each" record. [0015]
reformatting the symbolic representation of each symbolic representation of a date in the database, without the addition of any new data field to the database, with the reformatted symbolic representation of each date in the database having the values C_1C_2 , Y_1Y_2 , M_1M_2 , and D_1D_2 , in order to facilitate further processing of the reformatted symbolic representations of each of the symbolic representations of each of the dates; and	The date data, augmented with the century designator (19 or 20), is then written to key file 3; as seen there the date data has been reformatted to add the century designator. Inasmuch as the unprocessed database had used Y_1Y_2 , M_1M_2 , D_1D_2 , the addition of "19" or "20" meets the requirement of having the values C_1C_2 , Y_1Y_2 , M_1M_2 , D_1D_2 to facilitate further processing in that sorting the reformatted dates is now possible. While the year field has been expanded from YY to CCYY, no new fields are required. Since both the reference and the patent specification perform the reformatting in substantially the same manner, this clause cannot distinguish the claim from the reference.
sorting the dates in the form	Sorting is effected [0012] using the

C₁C₂Y₁Y₂M₁M₂D₁D₂.

full, 8 digit dates as specified.